

## STIC EIC 2100 Search Request Form 101286

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Today's Date: 8/15/63	What date would you like to use to limit the search?  Priority Date: $5/4/200$ Other:
Name Leslie Work	Format for Search Results (Circle One):
	DADED DICK FAMAII
AU <u>2177</u> Examiner # <u>789</u>	5 5
Room # <u>4041</u> Phone <u>3 05-</u>	Where have you searched so far?
· ·	
Serial # <u>199   849,678</u>	(IEEE) INSPEC SPI Other
Is this a "Fast & Focused" Search Request? (Circle One)  A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at http://ptoweb/patents/stic/stic-tc2100.htm.	
include the concepts, synonyms, keywords, a	or other specific details defining the desired focus of this search? Please acronyms, definitions, strategies, and anything else that helps to describe ct, background, brief summary, pertinent claims and any citations of
Topic: Cegulatory management system - produces and Aubmits compliance reports to Agencies.  Search yor:  emission	
Car las G	i Hydrocarbon emissims from tanks
Tucmums for	r Hydrocarbon emissions from tanks Hydrocare bow emissions p. internal Combistion ens
	- R. External
•	combination ensing
	Slycol dehydration emissions
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100	ading loss emissims
STIC Searcher Terese Esterhel	Phone 308-7795
	Date Completed 8/15/03 3:00 pm
Date picked up 3/15/03 9:2500 [	Date Completed 0/1-100



## **EIC 2100**

Questions about the scope or the results of the search? Contact the EIC searcher or contact:

Anne Hendrickson, EIC 2100 Team Leader 308-7831, CPK2-4B40

Voluntary Results Feedback Form		
>	I am an examiner in Workgroup: Example: 2100	
>	> Relevant prior art <b>found</b> , search results used as follows:	
	☐ 102 rejection	
	☐ 103 rejection	
	☐ Cited as being of interest.	
	Helped examiner better understand the invention.	
	Helped examiner better understand the state of the art in their technology.	
	Types of relevant prior art found:	
	☐ Foreign Patent(s)	
	<ul> <li>Non-Patent Literature</li> <li>(journal articles, conference proceedings, new product announcements etc.)</li> </ul>	
>	Relevant prior art not found:	
	Results verified the lack of relevant prior art (helped determine patentability).	
	Results were not useful in determining patentability or understanding the invention.	
Co	omments:	

Drop off or send completed forms to STIC/EIC2100 CPK2-4B40



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Items
               Description
Set
                (COMPLIANCE OR COMPLY? OR COMPLIANCY OR OBEDIENCE OR REQUI-
        1972
S1
            REMENT?) (3N) (REPORT? OR BRIEF? OR INFORMATION OR RECORD? OR D-
            OCUMENT? OR FILE?)
      1298482
               EMISSION OR EMIT OR EMITTED OR EMITTING OR EMITS OR (GIVE?
S2
            OR SEND?) () OUT OR DISCHARG? OR AIR() POLLUTION
s3
      3634673
               CALCULAT? OR COMPUT? OR FIGURE? OR FIGURING OR MEASUR?
S4
      2425183
               FORMULA? OR VALUE? OR EXPRESSION? OR SCHEME? OR TECHNIQUE?
            OR ALGORITHM? OR RULE?
               HYDROCARBON? ? OR HYDROCARBONACEOUS OR HYDROCARBONIC OR HY-
S5
      235006
            DROCARBONOUS OR VOC OR VOLATILE()ORGANIC()COMPOUND?
               TANK OR TANKS OR CONTAINER?
      917436
S6
               INTERNAL() COMBUSTION() ENGIN? OR PISTON() ENGIN? OR DIESEL?
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      163381
               EXTERNAL()COMBUSTION()ENGIN? OR STEAM()ENGIN?
         987
S8
          68
               GLYCOL() DEHYDRATION OR DRYING() NATURAL() GAS
S9
         211 FLASH() EMISSION?
S10
      1868015 TRANSFER? OR MOVE OR MOVING OR CONVEYANCE
S11
        2524
S12
               HIGH()PRESSURE()LIQUID
S13
               LOADING()LOSS()EMISSIONS
       11936 S2 (2N) S3
S14
S15
       11936
               S14 AND S2
               S15 AND S5
S16
          75
S17
         885
               S15 AND S6
S18
         166 S15 AND S7
           0 S15 AND S8
S19
           0
               S15 AND S9
S20
          0
               S15 AND (S10 (3N) S11)
S21
           2
               S10 (3N) S11
S22
        1105
               S16 OR S17 OR S18 OR S22
S23
S24
           0
               S23 AND S1
S25
          19
               S23 AND IC=G06F?
S26
       14855
               S2 (5N) S4
S27
        1180
               S26 AND (S5 OR S6 OR S7 OR S8 OR S9 OR (S10 (3N) S11 (3N) -
            S12))
S28
           4
               S27 AND IC=G06F?
               S25 OR S28
S29
          21
S30
          21
               S29 AND S2
File 347: JAPIO Oct 1976-2003/Apr (Updated 030804)
         (c) 2003 JPO & JAPIO
File 350: Derwent WPIX 1963-2003/UD, UM &UP=200352
         (c) 2003 Thomson Derwent
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30/5/2 (Item 2 from file: 347)

DIALOG(R) File 347: JAPIO

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06545587 \*\*Image available\*\*
APPARATUS AND SYSTEM FOR REALTH CARE

PUB. NO.: 2000-131316 \( \text{JP} \) 2000131316 \( \text{A} \)

PUBLISHED: May 12, 2000 (2000512)

INVENTOR(s): NAGATA HIDEKI

SONEZAKI SHUJI

APPLICANT(s): TOTO LTD

APPL. NO.: 10-319982 [JP 98319982] FILED: October 22, 1998 (19981022)

INTL CLASS: G01N-033/493; A47K-017/00; G06F-019/00

ABSTRACT

PROBLEM TO BE SOLVED: To provide information which is fully usable for health care from bodily wastes by a method, wherein continuous living-body information is processed and provided for a plurality of users, in such a way that it can be used by every user as data for health care.

SOLUTION: A control unit 200 is constituted of a body, which is separate from a Western-style toilet stool 100 so as to be installed on a floor surface. The control unit 200 and a urine collecting unit 300 are connected by a urine conveyance pipe 202 which conveys collected urine. The urine conveyance pipe 202 fulfills a role in discharging measured urine to the Western-style toilet stool 100 from the control unit 200. Also a feed water pipe 204 which supplies cleaning water is connected to the control unit 200 from a cleaning-water tank 106 at the Western-style toilet stool 100. The urine conveyance pipe 202 and the feed water pipe 204 are connected to the control unit 200 via a selector valve. When the selector valve is changed over, either the urine or the cleaning water which is collected inside the control unit 200 is supplied.

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30/5/5 (Item 5 from file: 347)

DIALOG(R) File 347: JAPIO

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05072999 \*\*Image available\*\*
LIQUID TRANSFER DEVICE

PUB. NO.: 08-028499 [JP 8028499 A] PUBLISHED: January 30, 1996 (19960130)

INVENTOR(s): MATSUI HIDEHIKO

APPLICANT(s): ISHIKAWAJIMA HARIMA HEAVY IND CO LTD [000009] (A Japanese

Company or Corporation), JP (Japan)

APPL. NO.: 06-162506 [JP 94162506] FILED: July 14, 1994 (19940714)

INTL CLASS: [6] F04F-001/18; B67D-005/08; F04B-013/00; G06F-017/00;

G21F-009/04; G21F-009/04; B67D-005/50

JAPIO CLASS: 24.1 (CHEMICAL ENGINEERING -- Fluid Transportation); 23.1

(ATOMIC POWER -- General); 32.5 (POLLUTION CONTROL --

Radioactive Waste Treatment); 45.4 (INFORMATION PROCESSING --

Computer Applications)

## ABSTRACT

PURPOSE: To improve quantitative supply by calculating liquid transfer flow quantity from a tank level variation and a calculated discharge flow quantity and thus regulating the driving air low quantity on the basis of the comparison with a set flow quantity and so transferring with high accuracy in accordance with a demanded low quantity.

CONSTITUTION: A set discharge flow quantity QS per unit time is inputted

in advance to a comparative calculation means 17 by a liquid transfer flow quantity setting means 18. Driving air is sent to an air-lift pump 3 from a driving air supply system 5, so that transfer of stored liquid R from a tank 1 is started. A driving air flow quantity is detected by a driving air flow quantity meter 6, and a calculated discharge flow quantity QC is calculated from performance characteristic pump 3 by a calculated discharge quantity calculation means 12. The transfer is thus continued for a specific time. When a timer 16 turns on after lapse of a specific time, a correction discharge flow quantity QC and a tank level variation by a transfer flow quantity correction means 15, so that the comparison with a set discharge quantity QS is made by a comparative calculation means 17. When a low quantity difference is recognized, the opening of a regulation valve 7 is regulated via an air flow quantity control mans 19 and so the driving air low quantity is increased/decrease.

30/5/6 (Item 6 from file: 347)
DIALOG(R)File 347:JAPIO

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04976762 \*\*Image available\*\*

SUPERCHARGING PRESSURE CALCULATING METHOD AND INTAKE SYSTEM DESIGNING METHOD IN ENGINE EQUIPPED WITH MECHANICAL SUPERCHARGER

PUB. NO.: 07-269362 [JP 7269362 A] PUBLISHED: October 17, 1995 (19951017)

INVENTOR(s): YANO YASUHIDE

NAKAGAWA TADASHI

APPLICANT(s): MAZDA MOTOR CORP [000313] (A Japanese Company or Corporation)

, JP (Japan)

APPL. NO.: 06-064117 [JP 9464117]
FILED: March 31, 1994 (19940331)
INTL CLASS: [6] F02B-033/00; G06F-017/50

JAPIO CLASS: 21.2 (ENGINES & TURBINES, PRIME MOVERS -- Internal

Combustion); 45.4 (INFORMATION PROCESSING -- Computer

Applications)

## ABSTRACT

PURPOSE: To improve supercharging pressure computation accuracy by seeking the condition that makes intake flow and **discharge** flow **computation values** mutually equal and also these values and delivery flow given by supercharging characteristic equal under the terms off identical pressure ratio and engine speed and finding the supercharging pressure under this condition.

CONSTITUTION: An intake system, excluding a mechanical supercharger 1, is made into models as a combination of sub-models of a pipe model, a container model, etc., and quantity of state of pressure, flow, temperature, etc., of respective sections regarding the intake mode models are computing-processed. The supercharger 1 is made into a model of two containers of intake and delivery sides and intake and delivery flows are computed in accordance with relational expression of the quantity of state at the joint parts of respective containers and intake pipes per model. A condition under which flow computed values and the delivery flows given by supercharger characteristic data indicating the characteristic of the supercharger itself becomes equal under the terms of identical pressure ratio and engine speed is seeked and the supercharging pressure and other quantity of state are found by repeating such process by each certain assuming time until the quantity of state converges.

30/5/9 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014870763

WPI Acc No: 2002-691469/200274

XRAM Acc No: C02-195334 XRPX Acc No: N02-545563

Determination of concentration of at least one analyte in a test sample involves mixing the sample with a single reagent, irradiating the mixture and calculating the concentration of the analyte

Patent Assignee: SUNDREHAGEN E (SUND-I)

Inventor: SUNDREHAGEN E

Number of Countries: 099 Number of Patents: 003

Patent Family:

Patent No Applicat No Kind Date Week Kind Date 20011130 200274 B WO 200244721 A1 20020606 WO 2001NO480 Α 20011130 200274 AU 200223166 A 20020611 AU 200223166 Α US 20030077596 A1 20030424 WO 2001NO480 Α 20011130 200330 US 200219866 Α 20020807

Priority Applications (No Type Date): NO 20006130 A 20001201 Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200244721 A1 E 78 G01N-033/53

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW 200223166 A G01N-033/53 Based on patent WO 200244721

AU 200223166 A G01N-033/53 US 20030077596 A1 C12Q-001/68

Abstract (Basic): WO 200244721 A1

NOVELTY - Determination of concentration of at least one analyte in a test sample or an aliquot of a test sample of a complex biological fluid involves mixing the sample or aliquot of the sample with one single reagent to form a mixture, irradiating the mixture with polarized light, measuring the polarization of the **emitted** light and **calculating** the concentration of the analyte.

DETAILED DESCRIPTION - Determination of concentration of at least one analyte in a test sample or an aliquot of a test sample of a complex biological fluid involves:

- (i) mixing the sample or aliquot of the sample with one single reagent such as a solid, solution or premixed solution to form a mixture
- (ii) irradiating the mixture with polarized light which permits the excitation of the fluorescent molecules
  - (iii) measuring the polarization of the emitted light, and
    (iv) calculating the concentration(s) of the analyte(s).

The reagent is provided in one single **container** or compartment of a **container** and no other reagent is added during the performance of the method. The reagent further comprises at least one type of binding molecule with specific affinity for at least one of the analytes and either fluorescent moieties covalently linked to the binding molecules or fluorescent analogs, fluorescent fragments or fluorescent derivatives of the analyte(s).

INDEPENDENT CLAIMS are also included for:

- (1) A reagent for carrying out the method comprising at least one type of binding molecule with specific affinity for at least one of the analyte. The reagent further comprises fluorescent moieties covalently linked to the binding molecules or fluorescent analogs, fluorescent fragments or fluorescent derivatives of the analyte(s); and
- (2) Kit for carrying out the method comprising at least one container. The container (s) or compartment of the container (s) contains one single reagent, preferably in a fluidal state. The reagent comprises at least one fluorescence-labeled specific binding molecules towards the analyte(s) to be measured or a fluorescence-labeled analog or fluorescent fragment or fluorescent derivative of the analyte(s) as well as device for obtaining the extract volume(s) of the complex biological fluid to be tested and that is needed in order to perform

the method adequately.

USE - For the determination of concentration of at least one analyte in a test sample or an aliquot of a test sample of a complex biological fluid, particularly for the determination of concentrations of clinically related substances in samples of biological material from living organism (claimed) e.g. plants, insects, birds and animals such as mammals (e.g. primates or humans).

ADVANTAGE - The method involves use of stable, durable reagents; is carried out in very few (preferably just one single **container**); does not require any significant pipette work. The method can be carried out on blood tests after or with simultaneous lysis of the blood cells. The method is a sensitive specific measurement method. The method is carried out at constant temperature by use of correction algorithms empirically generated by temperature's influence on test solutions with known concentration of the analyte.

pp; 78 DwgNo 0/8

Title Terms: DETERMINE; CONCENTRATE; ONE; ANALYTE; TEST; SAMPLE; MIX; SAMPLE; SINGLE; REAGENT; IRRADIATE; MIXTURE; CALCULATE; CONCENTRATE;

Derwent Class: B04; S03

International Patent Class (Main): C12Q-001/68; G01N-033/53
International Patent Class (Additional): G01N-033/48; G01N-033/50;
 G01N-033/533; G01N-033/542; G01N-033/567; G01N-033/68; G06F-019/00
File Segment: CPI; EPI

30/5/10 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014702021 \*\*Image available\*\*
WPI Acc No: 2002-522725/200256

XRAM Acc No: C02-148208 XRPX Acc No: N02-413678

Recycling of organic waste collected from several sources of emission , involves recovering valuable resources by controlled recovering process, so that required amount of recovered valuable resources are obtained

Patent Assignee: KAJIMA CORP (KAJI )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
JP 2002102838 A 20020409 JP 2000302767 A 20001002 200256 B

Priority Applications (No Type Date): JP 2000302767 A 20001002 Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes JP 2002102838 A 14 B09B-005/00

Abstract (Basic): JP 2002102838 A

NOVELTY - Valuable resources (VR) (8A,8B,8C) which differed from several sources of emission, are recovered from collected organic waste (2a,2b,2c) by recovering processes (RP) (7A,7B,7C). Condition, property, and amount of waste material are calculated for every source. A recovery estimator calculates recovery of VR based on calculated value. RP are controlled, so that required amount of recovered VR are obtained.

DETAILED DESCRIPTION - Valuable resources (8A,8B,8C) which differed from several sources (1a,1b,1c) of emission, are recovered from collected organic waste (2a,2b,2c) by several recovering processes (7A,7B,7C). The condition, property, and amount of collected waste material are calculated for every source of emission. A recovery estimator calculates the recovery of valuable resources based on the condition, property and amount of collected waste material. The recovering processes with respect to the waste material, are controlled for every source of emissions, so that the required amount of the recovered valuable resources are obtained.

An INDEPENDENT CLAIM is included for recycling system of organic

waste. The system comprises a waste material evaluation unit (12) which calculates the condition, property, and amount of collection of waste material from several source of emission, an amount calculation unit which calculates the requirement amount of recoveries for every valuable resource, and an evaluation unit. The system comprises a recovering process determining unit (14) which determines the recovering process with respect to the waste material. The system treats the waste material of every source of emission according to a decided recovering process by recovering process determining unit. USE - For recycle of organic waste such as animals and plants residue ejected from foodstuffs production residue, agriculture-stock raising-fishery plant, paper manufacture-pulp mill, especially collected from several sources of emission . ADVANTAGE - The organic waste is recycled and the required amount of valuable resources is obtained. Soft switching of recovering process is performed depending upon the output of organic waste and demand quantity of valuable resources. Hence, valuable resources are efficiently recovered from waste material. The amount of valuable resources recovered from every source of emission is known (by estimator), hence the amount of waste material removal is calculated for every source of emission . DESCRIPTION OF DRAWING(S) - The figure shows the diagrammatic flow chart of waste material recycling method. (Drawing includes non-English language text). Several sources of emission (la, 1b, 1c) Organic waste (2a,2b.,2c) Recovering processes (7A,7B,7C) Valuable resources (8A,8B,8C) Waste material evaluation unit (12) Recovering process determining unit (14) pp; 14 DwgNo 1/16 Title Terms: RECYCLE; ORGANIC; WASTE; COLLECT; SOURCE; EMIT; RECOVER; VALUABLE; RESOURCE; CONTROL; RECOVER; PROCESS; SO; REQUIRE; AMOUNT; RECOVER; VALUABLE; RESOURCE; OBTAIN Derwent Class: D15; H06; P43; T01 International Patent Class (Main): B09B-005/00 International Patent Class (Additional): C02F-011/00; C05F-017/00; C10L-003/06; **G06F-017/60** File Segment: CPI; EPI; EngPI 30/5/21 (Item 15 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2003 Thomson Derwent. All rts. reserv. 004331251 WPI Acc No: 1985-158129/198526 XRPX Acc No: N85-119132 Commodity oil metering data processing and transmission unit - has gas emission correction calculator with inputs from pressure drop sensor and light hydrocarbon fraction calculator Patent Assignee: VOLGO-URAL GASES (VOLG-R) Inventor: GALYAN N N; SHCHERBINA V E; SHVETS V A Number of Countries: 001 Number of Patents: 001 Patent Family: Patent No Kind Date Applicat No Kind Date Week SU 1129625 Α 19841215 SU 3666868 Α 19831129 198526 B Priority Applications (No Type Date): SU 3666868 A 19831129 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes SU 1129625 Α

Abstract (Basic): SU 1129625 A

New circuit components are thus pressure drop sensor (50), pressure sensor (51), light hydrocarbon fraction calculator (52), gas emission correction calculator (53), pulse subtracter (54), adder

(55), compressibility factor calculator (56) and compressibility correction calculator (57).

Pressure drop sensor (50) measures the pressure drop across valve (59) and applies its signal to the first input of calculator (53), which also receives the output pulse train of adder (5) and a constant gas emission factor from calculator (52), and uses them to calculate the gas emission correction. This is applied to the subtracter, also connected to adder (5). The subtracter's output is used by adder (55), connected to the compressibility correction calculator, whose input is connected to the compressibility factor calculator, in turn connected to temperature sensor (7).

USE/ADVANTAGE - Increased accuracy of metering is the distinguishing feature of the unit, intended for use in the gas and oil industry to process liquefied **hydrocarbon**, gas condensate, oil and petroleum product metering information. The improvement results from provision of facilities to take into account oil compressibility and gas **emission** during high-pressure transport and pumping. Bul. 46/15.12.84. (27pp Dwg.No.1/18)

Title Terms: COMMODITY; OIL; METER; DATA; PROCESS; TRANSMISSION; UNIT; GAS; EMIT; CORRECT; CALCULATE; INPUT; PRESSURE; DROP; SENSE; LIGHT; HYDROCARBON; FRACTION; CALCULATE

Derwent Class: T01

International Patent Class (Additional): G06F-015/46

File Segment: EPI